



TECHNICAL DATA

GB UNIBIO® HYDRAULIC OIL RANGE

Biodegradable hydraulic fluids formulated on vegetable oils

APPLICATIONS

There is an increasing awareness of the environmental impact of the large volume of lubricants entering the environment and, consequently, mineral-based lubricants in environmentally sensitive areas are being gradually replaced by biodegradable fluids.

To protect the environment, the use of environmentally considerate lubricants is essential, especially where either the risk of spillage is high or total loss lubrication applies. Particularly important when working where soil or water contamination is a possibility.

The GB UNIBIO® HYDRAULIC OIL RANGE is readily biodegradable, developed using specially selected additives and vegetable oils. These hydraulic fluids are suitable for light to medium duty systems operating at temperatures of up to 60°C. Applications include: industrial, horticultural, forestry equipment.

PERFORMANCE FEATURES

The GB UNIBIO® HYDRAULIC OIL RANGE of environmentally sensitive fluids has been formulated to meet the requirements of hydraulic equipment and offers the following features:

- Full biodegradability according to all major standards
- A product which is free of genetically modified ingredients
- Ashless technology
- Good anti-wear performance
- Good oxidation stability
- Good corrosion protection
- Suitability for use under mechanical conditions where the temperature of the lubricant could reach 60°C

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Integrated Management System
PAS 99 IMR 560337
ISO 9001
ISO 14001
OHSAS 18001

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GB UNIBIO® HYDRAULIC OIL RANGE

COMPATIBILITY

Ideally, the GB UNIBIO® HYDRAULIC OIL RANGE should not be contaminated with other oils. Whilst contamination with other oils may not affect the equipment, it is likely to reduce the biodegradability and environmental capability so should therefore be avoided.

CHARACTERISTICS

TEST	UNIT	METHOD	TYPICAL PHYSICAL CHARACTERISTICS		
			32	46	68
ISO					
Appearance	-	-	Clear yellow liquid		
Density @ 15°C	kg/m ³	IP 160	924	924	925
Kinematic Viscosity @ 40°C	cSt	IP 71	37.6	45.7	68.0
Kinematic Viscosity @ 100°C	cSt	IP 71	8.5	10.3	14.8
Viscosity Index	-	IP 226	213	222	230
Biodegradability	%	OECD 301 B	>95	>95	>95
Flash Point (PMCC)	°C	ASTM D93	201	199	195
Pour Point	°C	ASTM D97	-33	-36	-36
Cloud Point	°C	ASTM D2500	-17	-18	-20

STORAGE AND HANDLING

The GB UNIBIO® HYDRAULIC OIL RANGE should be stored under cover and protected from extreme temperatures. Avoid water collecting in the rim of upturned barrels.

Further information on the GB UNIBIO® HYDRAULIC OIL RANGE can be obtained by referring to the corresponding Safety Data Sheet.

The Company policy is to ensure that a range of products is supplied which complies with the latest specifications and codes within the relevant industry. As part of this development process, we therefore reserve the right to amend formulations without prior notice.